This slide presentation was presented at the May 3, 2004 Coyote Creek Shear velocity Comparison Workshop at the USGS, Menlo Park, CA.

This is an extract from Asten, M.W., and Boore, D.M., eds., Blind comparisons of shear-wave velocities at closely spaced sites in San Jose, California: U.S. Geological Survey Open-File Report 2005-1169. [available on the World Wide Web at http://pubs.usgs.gov/of/2005/1169/].

2005

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

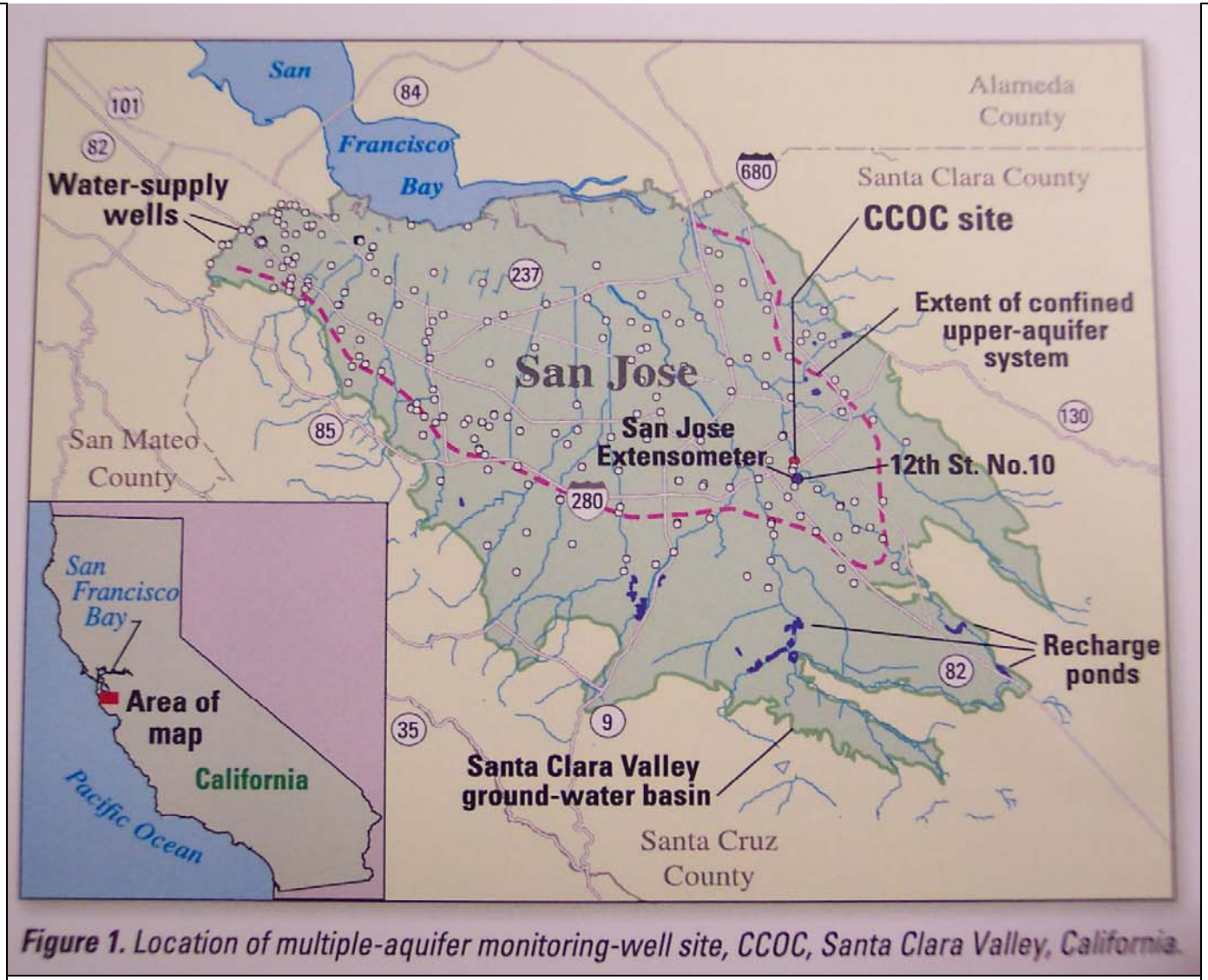
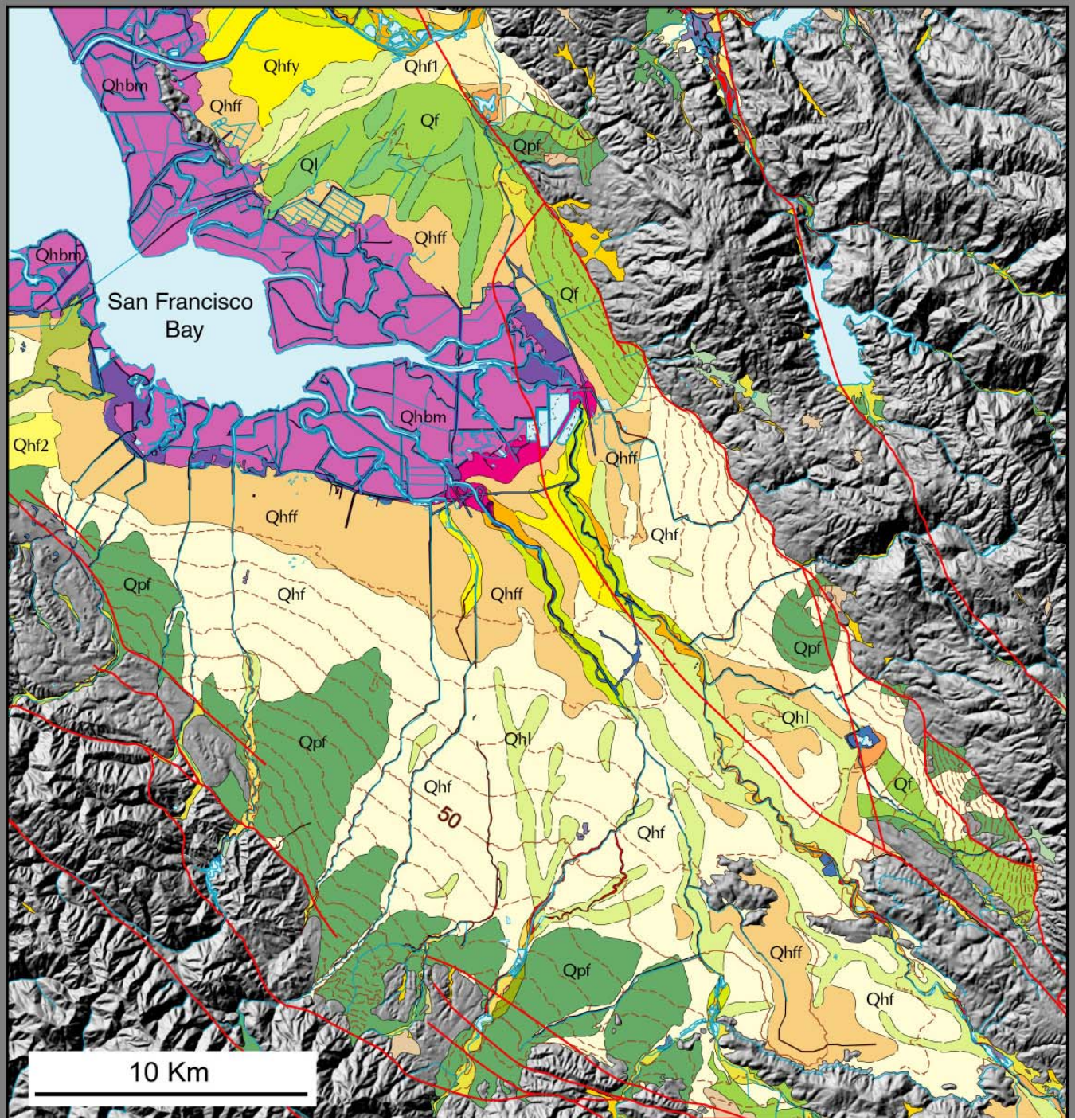
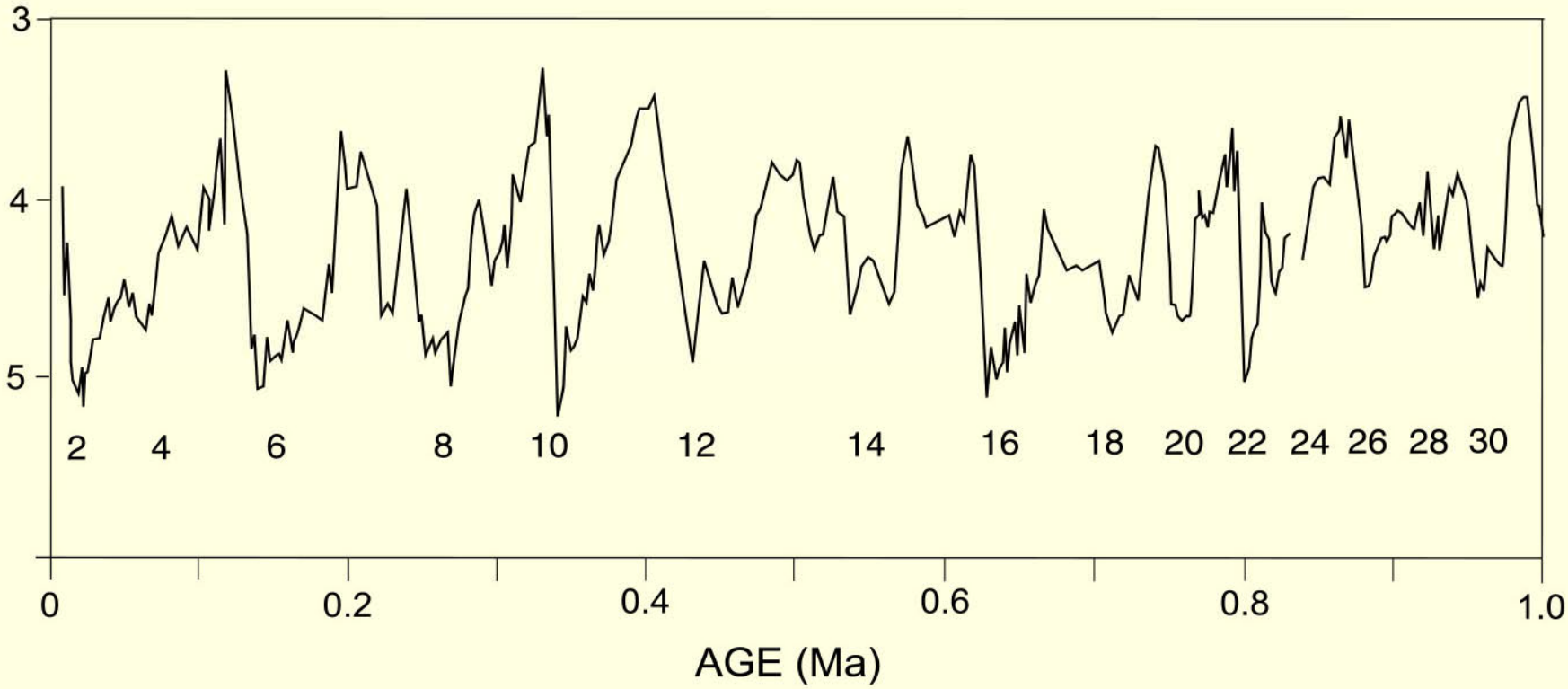


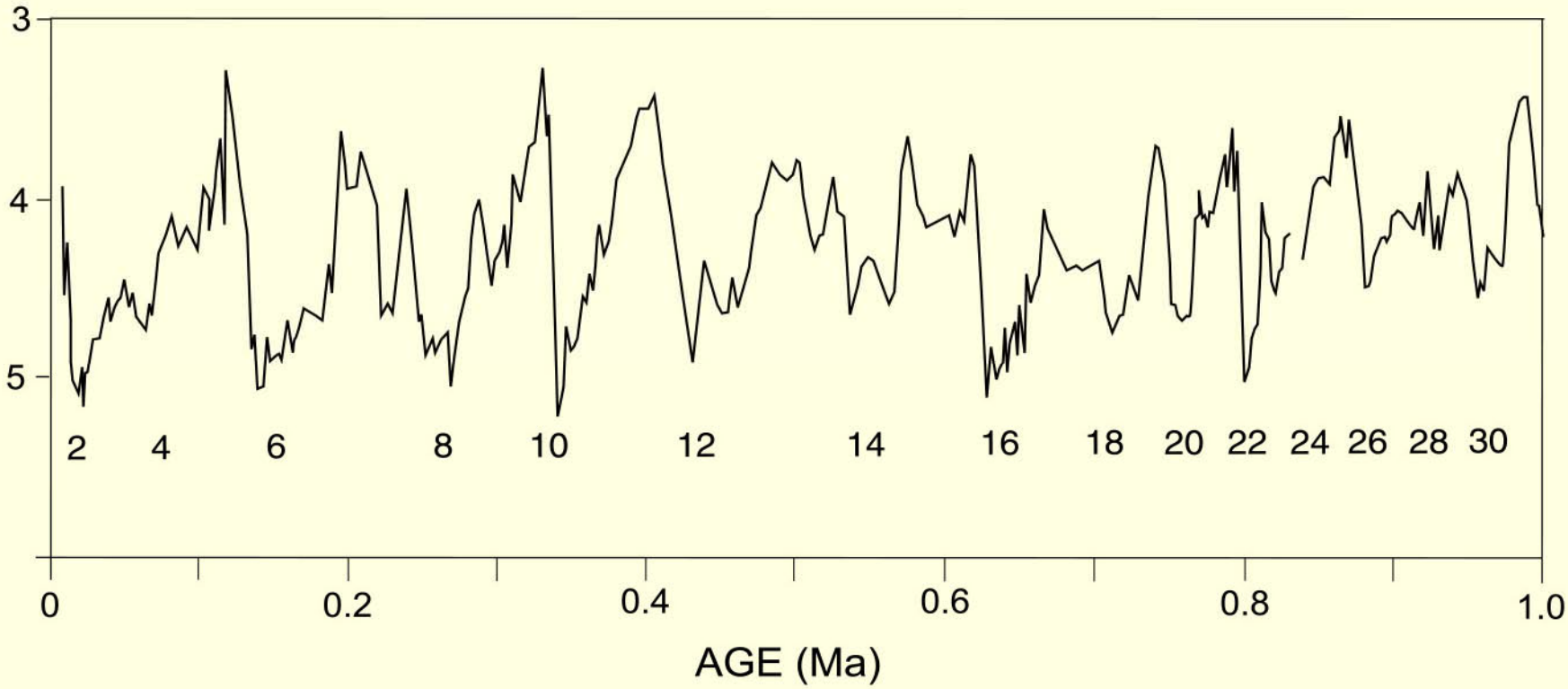
Figure 1. *Location of multiple-aquifer monitoring-well site, CCOC, Santa Clara Valley, California.*


Qhfy
Qhf1
Qhbm
Qhff
Qf
Qpf
Ql
Qhff
Qhbm
San Francisco
Bay
Qf
Qhbm
Qhf2
Qhff
Qhff
Qhf
Qhff
Qpf
Qhf
Qhff
Qpf
Qhl
Qpf
Qhl
Qf
Qhf
50
Qhf
Qhff
Qpf
Qhf
10 Km

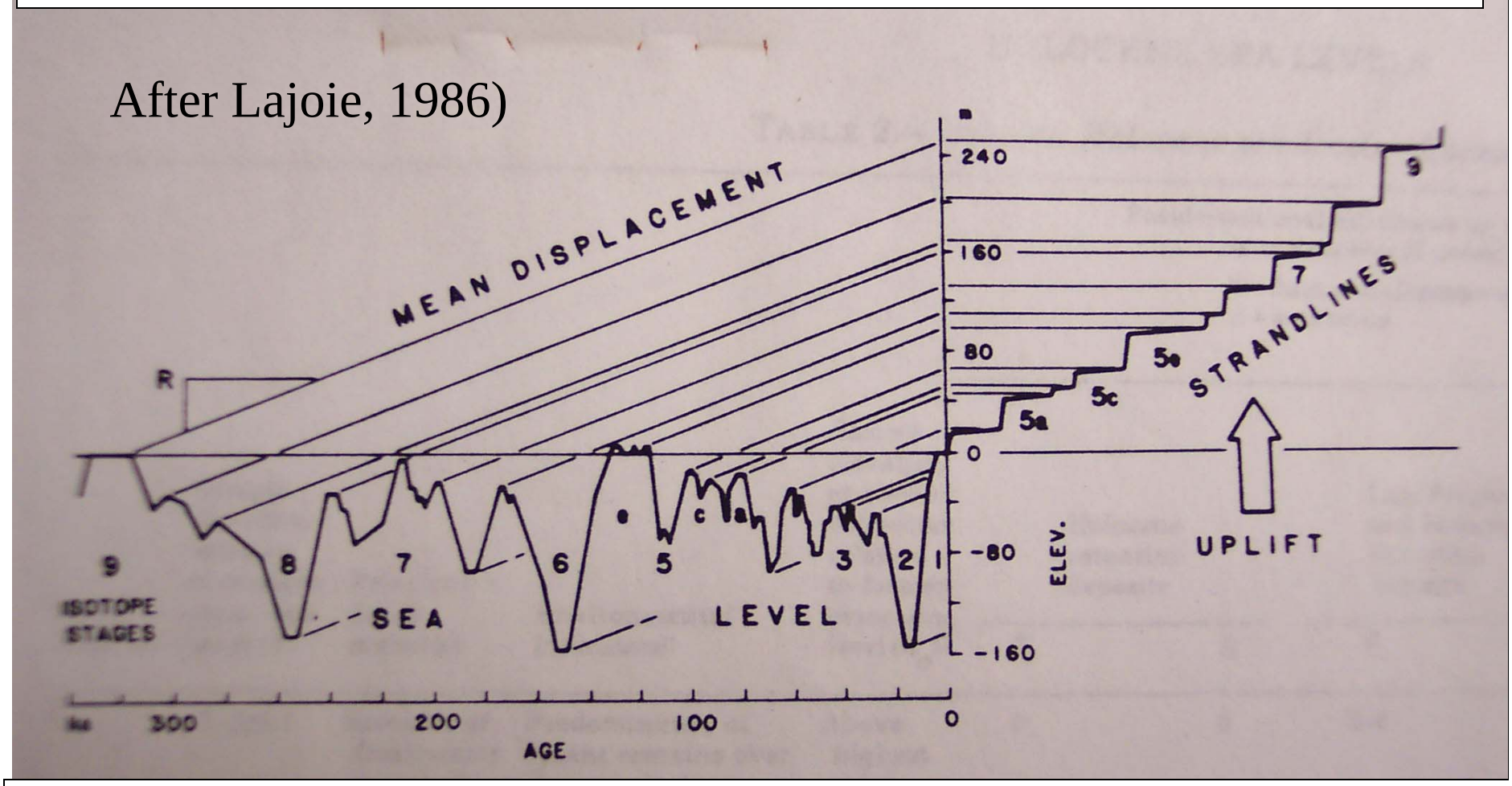
MARINE CLIMATIC CYCLES

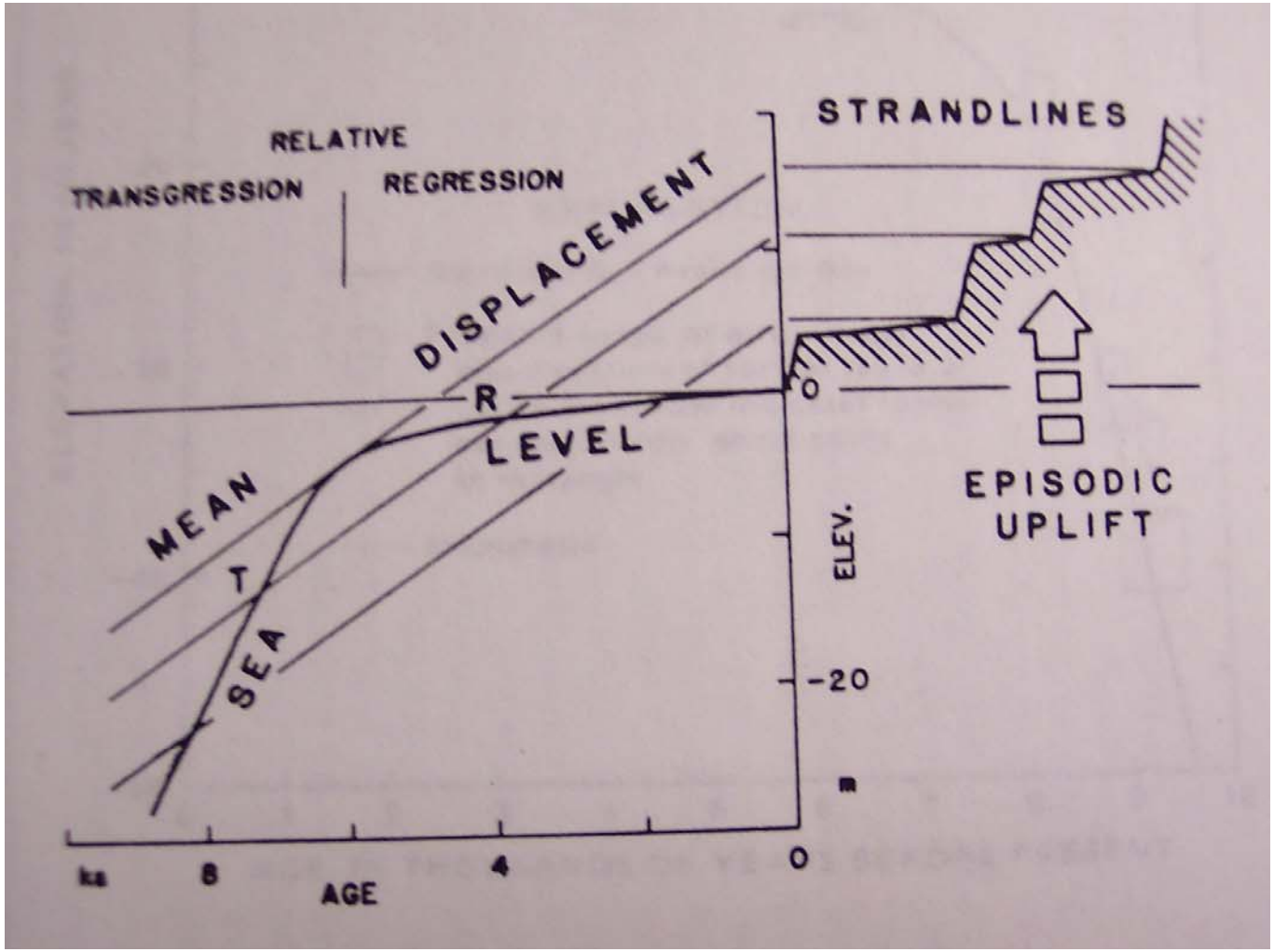


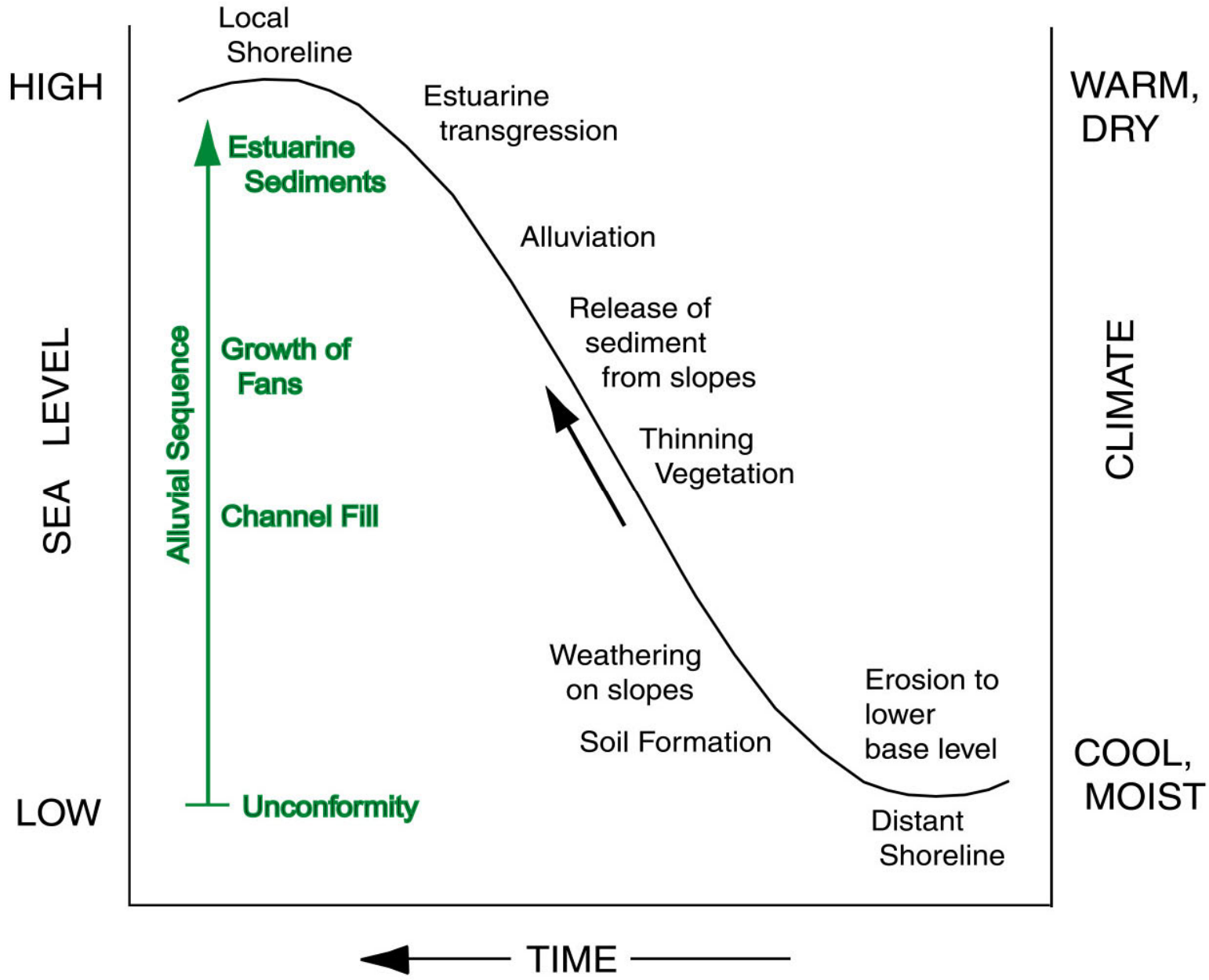
MARINE CLIMATIC CYCLES

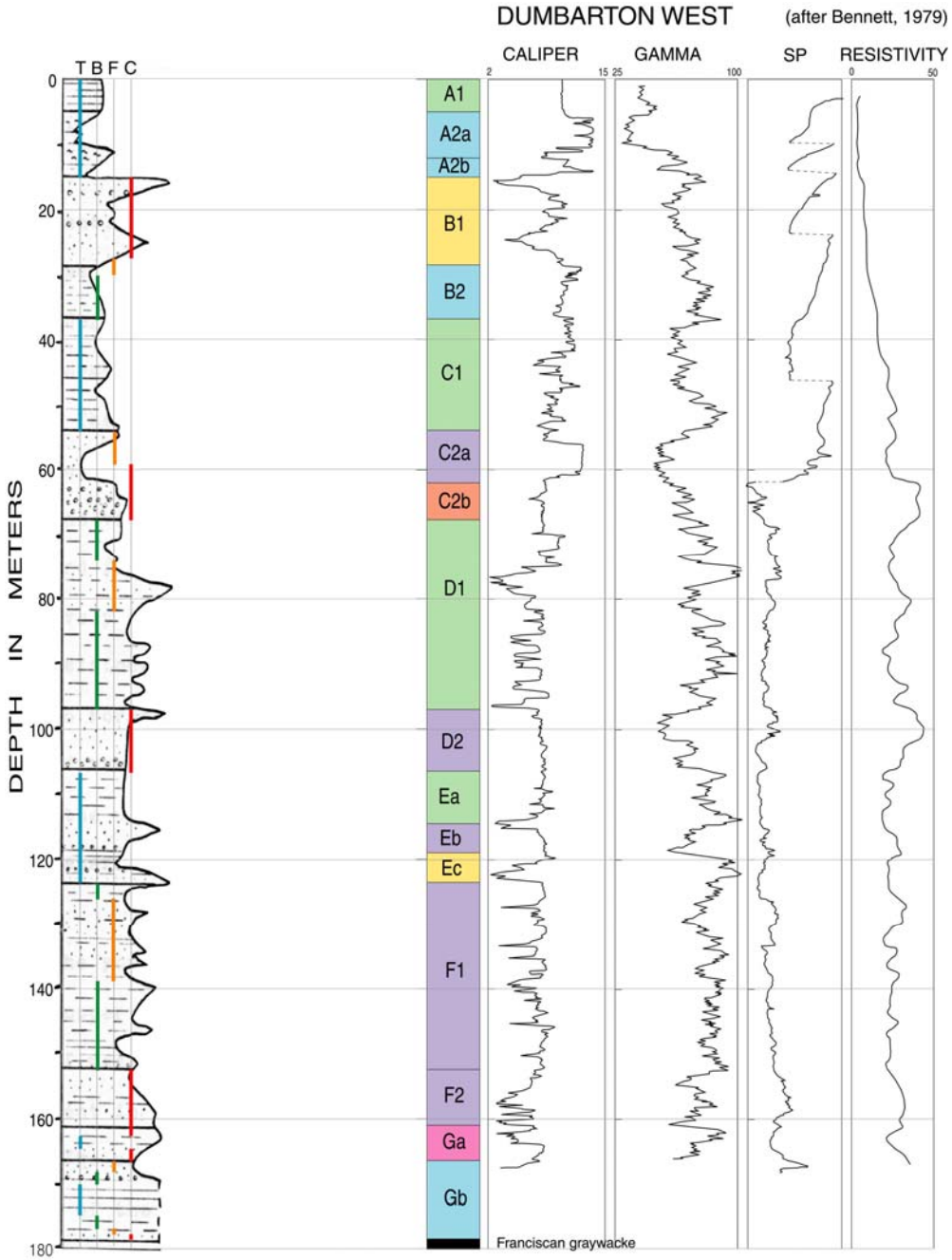


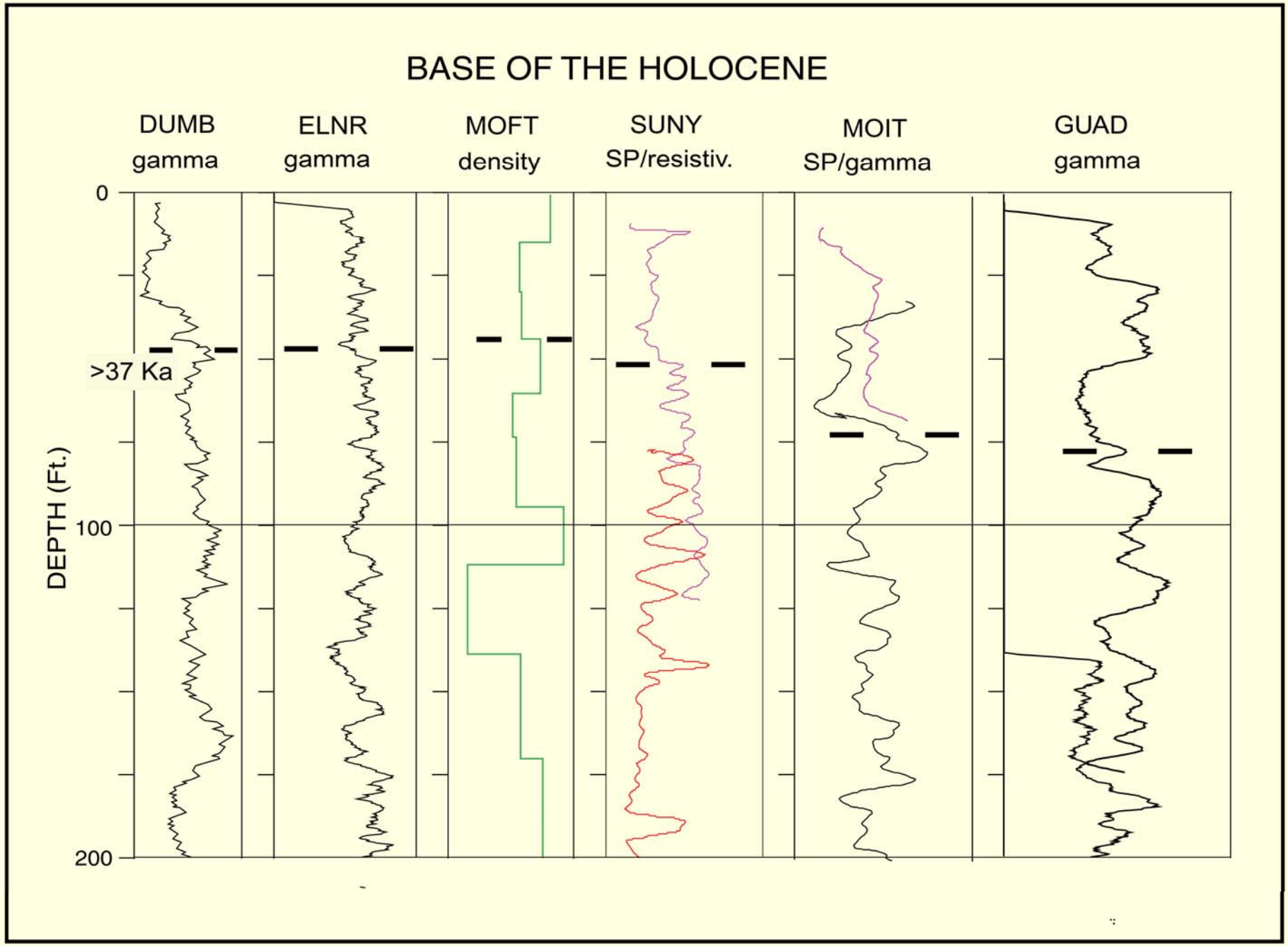
After Lajoie, 1986)

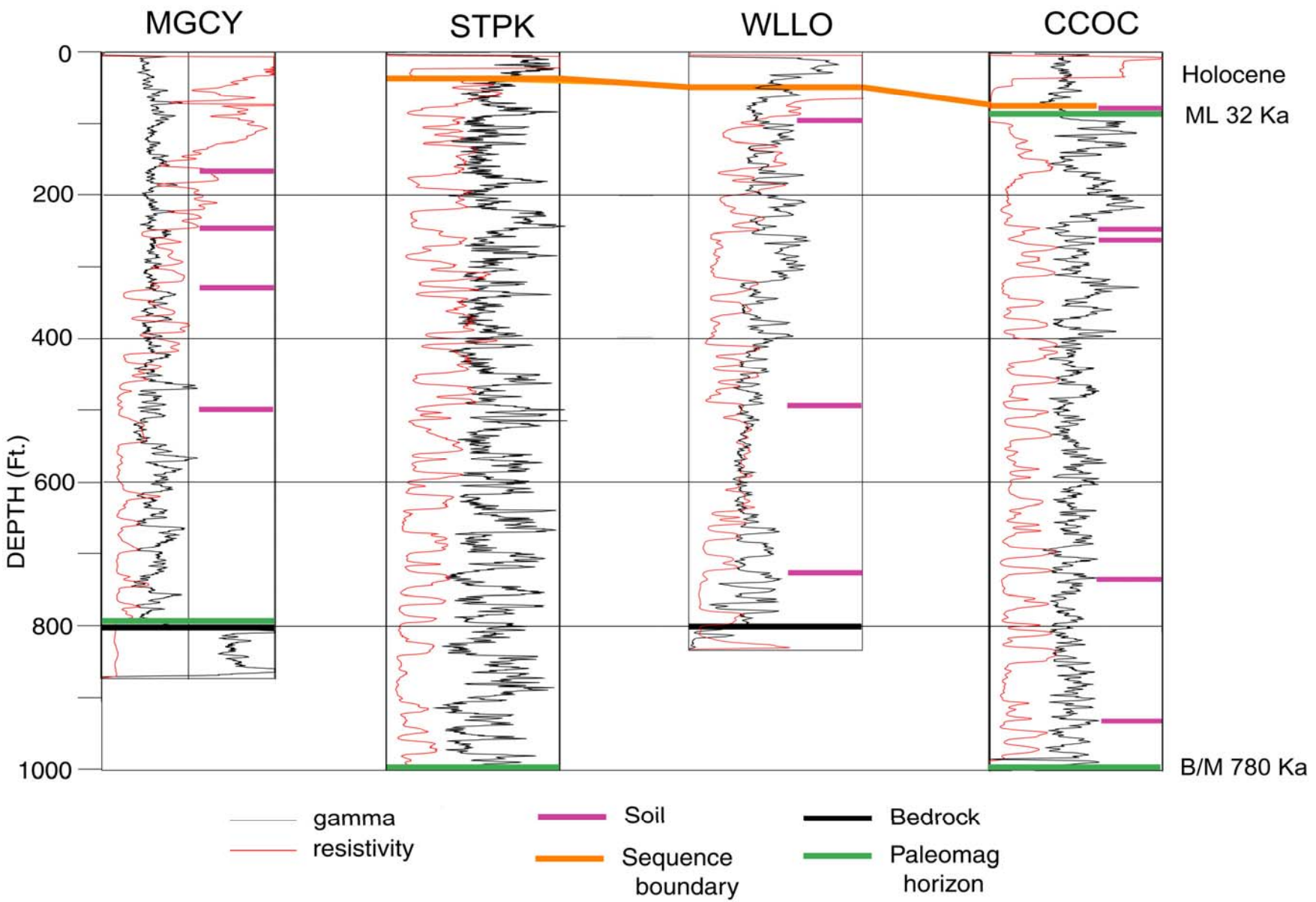


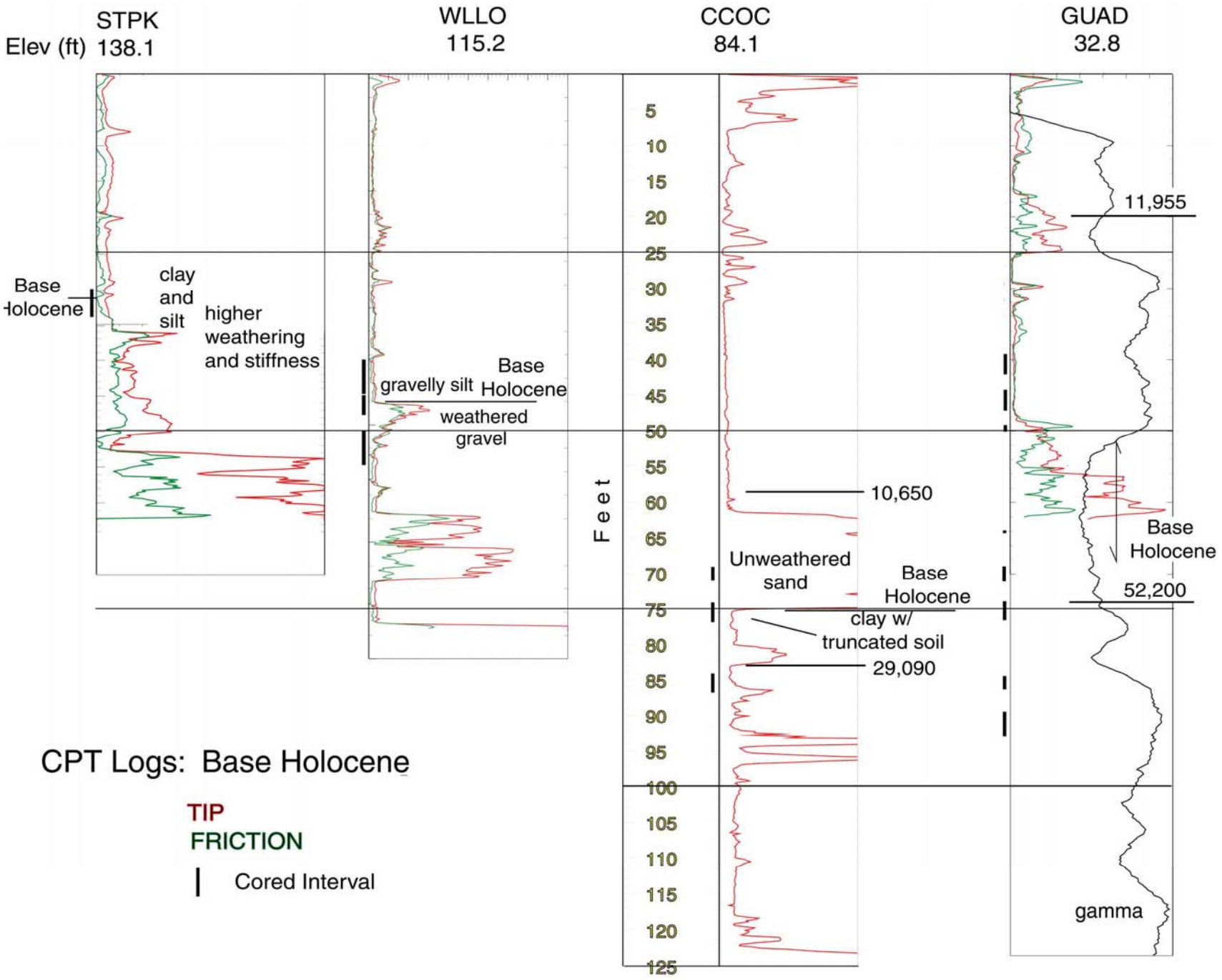

STRANDLINES
RELATIVE
TRANSGRESSION
REGRESSION
DISPLACEMENT
R
LEVEL
MEAN
T
SEA
0
EPISODIC
UPLIFT
ELEV.
-20
m
ka
8
AGE
4
0

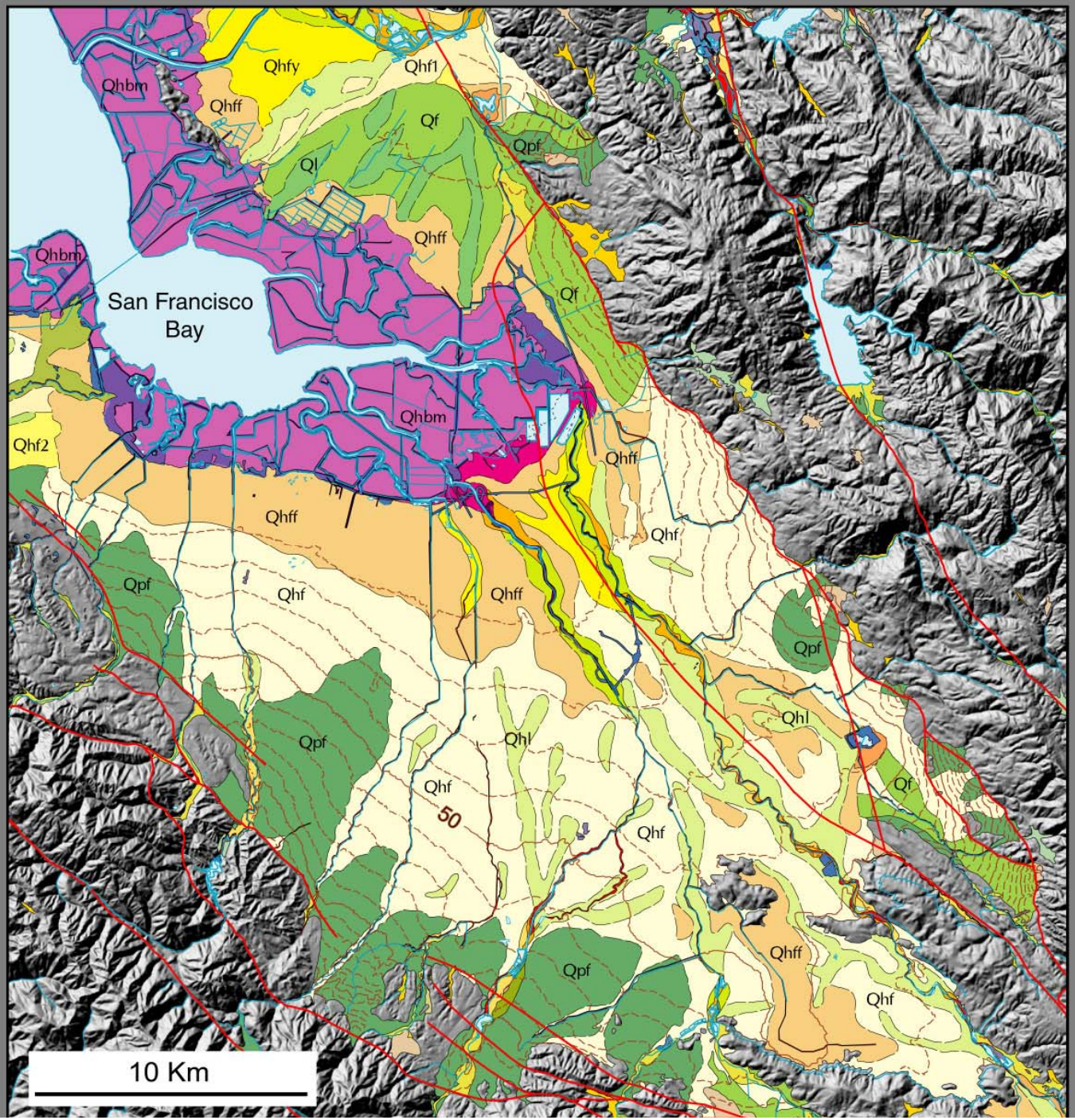

Local
Shoreline
HIGH
Estuarine
transgression
WARM,
DRY
Estuarine
Sediments
Alluviation
Release of
sediment
from slopes
SEA LEVEL
Alluvial Sequence
Growth of
Fans
CLIMATE
Thinning
Vegetation
Channel Fill
Weathering
on slopes
Erosion to
lower
base level
Soil Formation
COOL,
MOIST
LOW
Unconformity
Distant
Shoreline
TIME


DUMBARTON WEST
(after Bennett, 1979)
CALIPER
GAMMA
SP
RESISTIVITY
T B F C
DEPTH IN METERS
0
20
40
60
80
100
120
140
160
180
A1
A2a
A2b
B1
B2
C1
C2a
C2b
D1
D2
Ea
Eb
Ec
F1
F2
Ga
Gb
Franciscan graywacke

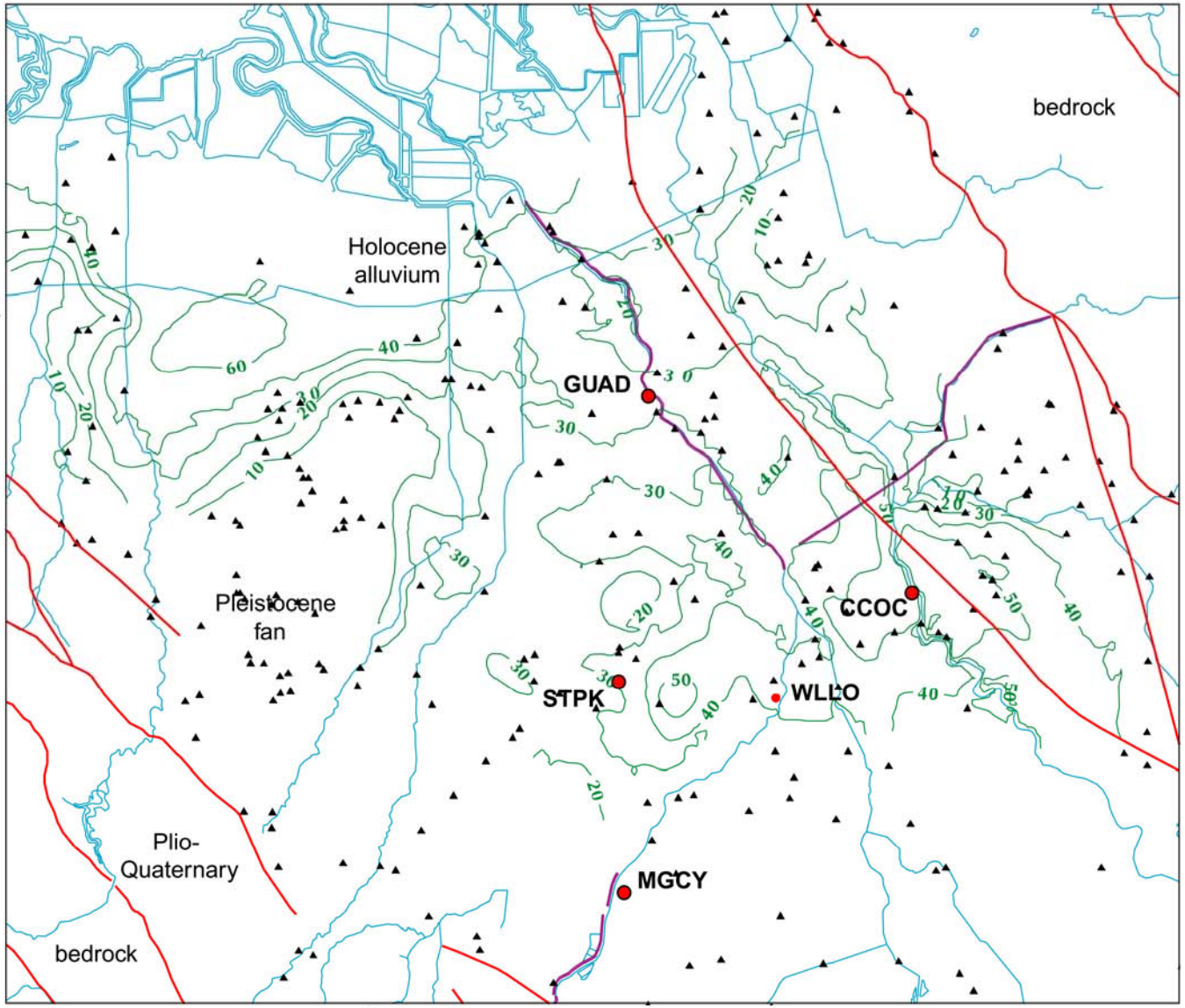

BASE OF THE HOLOCENE
DUMB
gamma
ELNR
gamma
MOFT
density
SUNY
SP/resistiv.
MOIT
SP/gamma
GUAD
gamma
0
>37 Ka
100
200
DEPTH (Ft.)


MGCY
STPK
WLLO
CCOC
0
200
400
600
800
1000
DEPTH (Ft.)
Holocene
ML 32 Ka
B/M 780 Ka
gamma
resistivity
Soil
Sequence boundary
Bedrock
Paleomag horizon

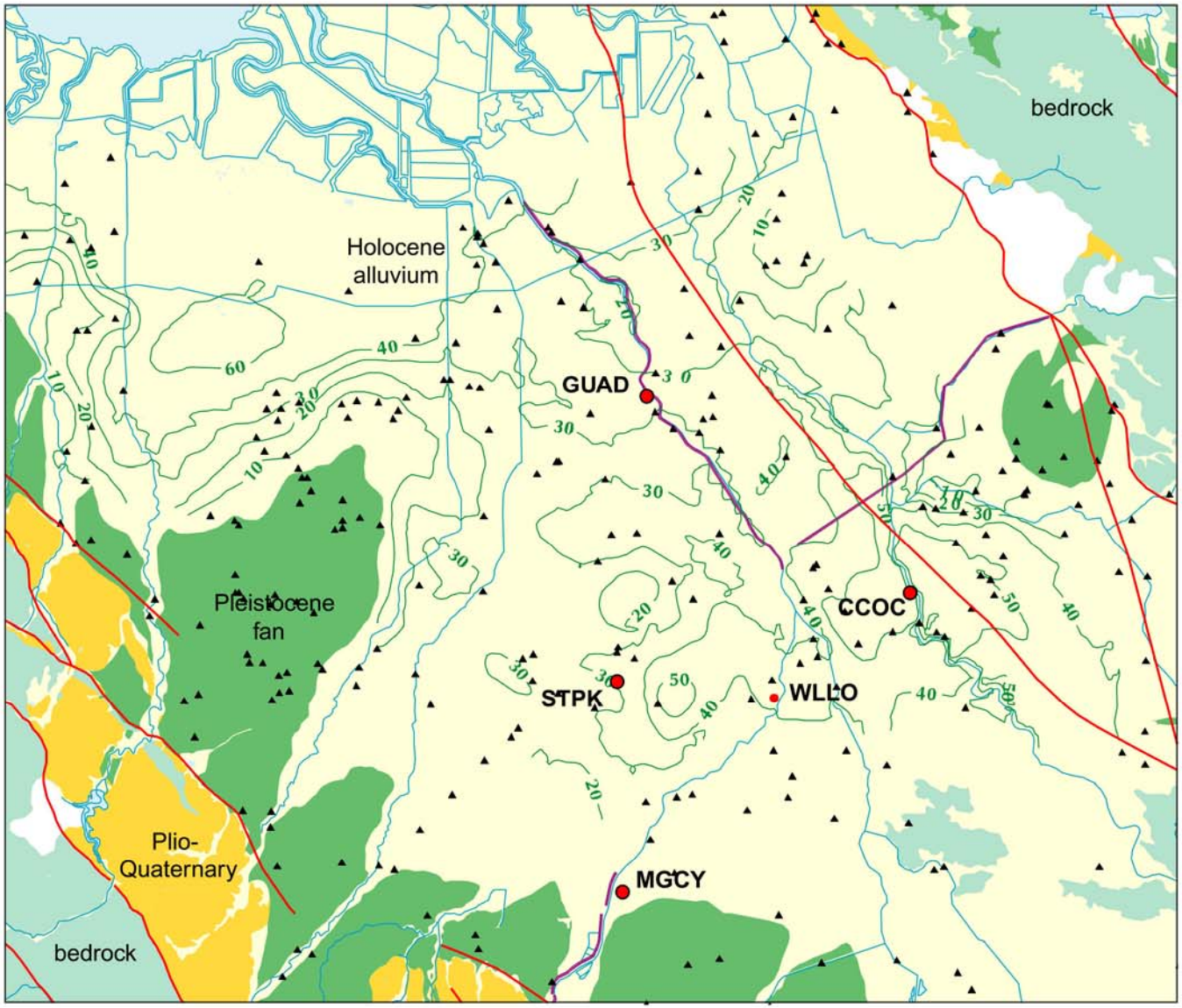

STPK
Elev (ft) 138.1
WLLO
115.2
CCOC
84.1
GUAD
32.8
Base
Holocene
clay
and
silt
higher
weathering
and stiffness
gravelly silt
Base
Holocene
weathered
gravel
Feet
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
11,955
10,650
Unweathered
sand
Base
Holocene
clay w/
truncated soil
29,090
Base
Holocene
52,200
gamma
CPT Logs: Base Holocene
TIP
FRICTION
Cored Interval

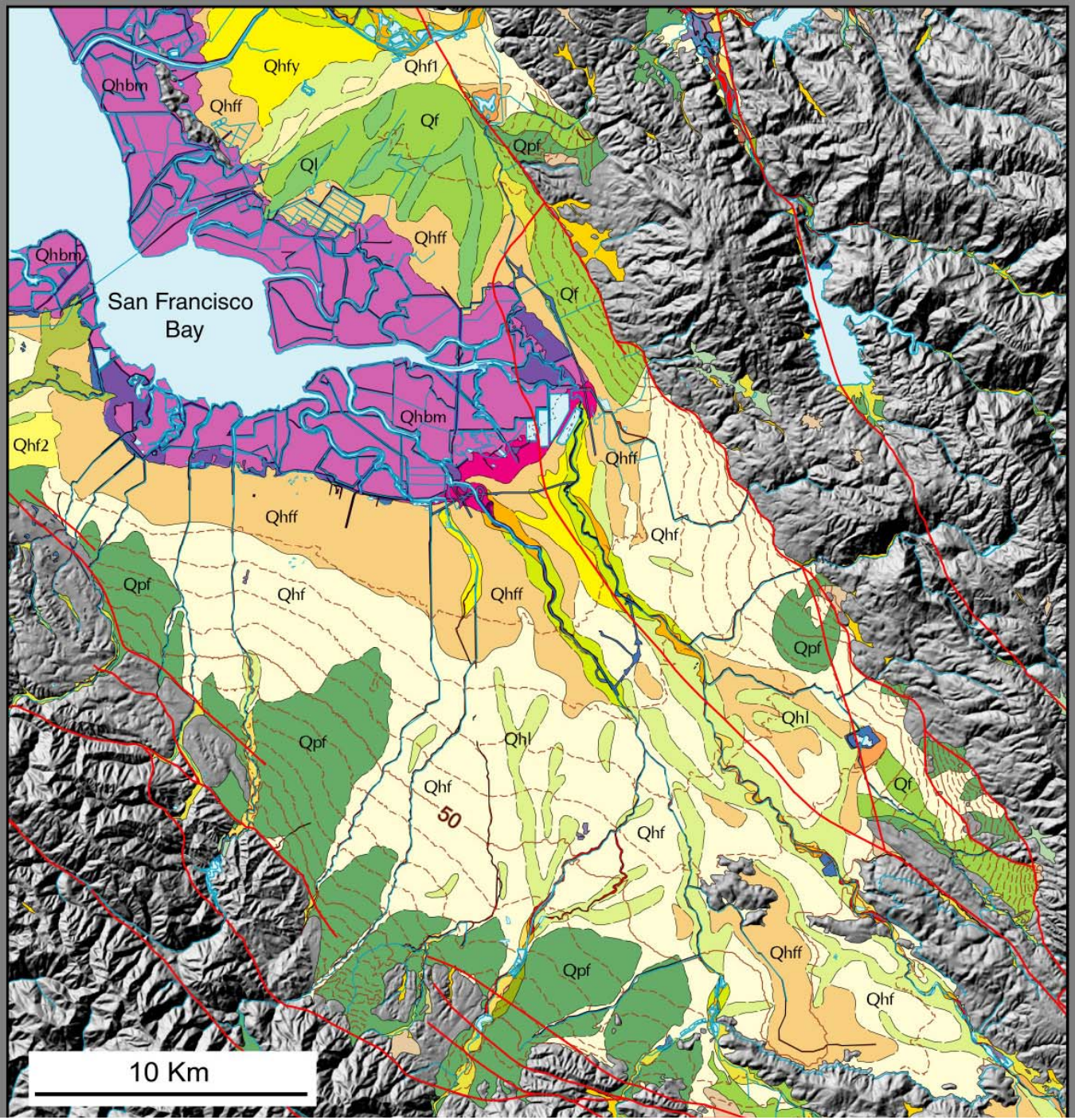

Qhfy
Qhf1
Qhbm
Qhff
Qf
Qpf
Ql
Qhff
Qhbm
San Francisco
Bay
Qf
Qhbm
Qhf2
Qhff
Qhff
Qhf
Qhff
Qpf
Qhf
Qhff
Qpf
Qhl
Qpf
Qhl
Qf
Qhf
50
Qhf
Qhff
Qpf
Qhf
10 Km

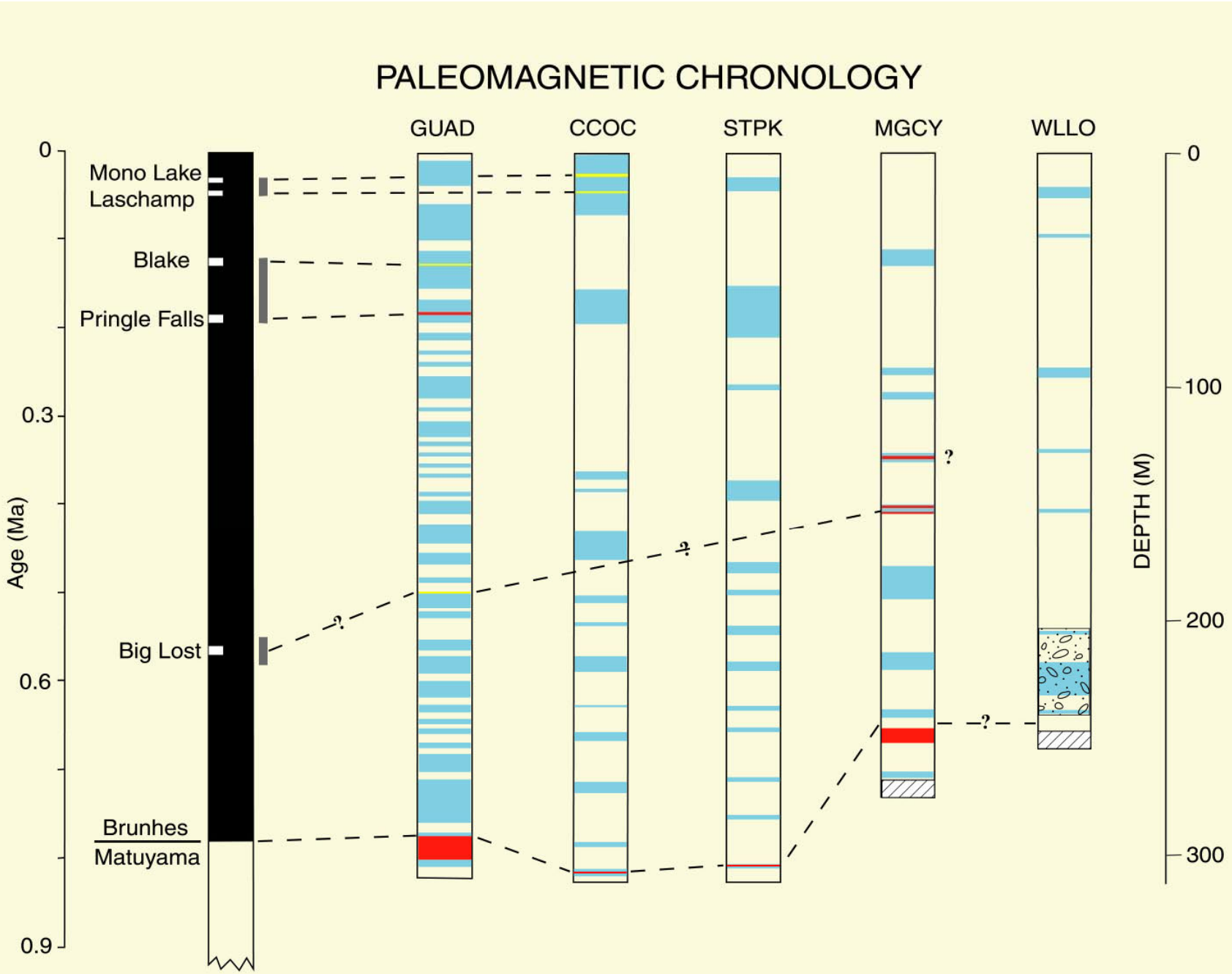
NEW MONITORING WELLS IN SANTA CLARA VALLEY



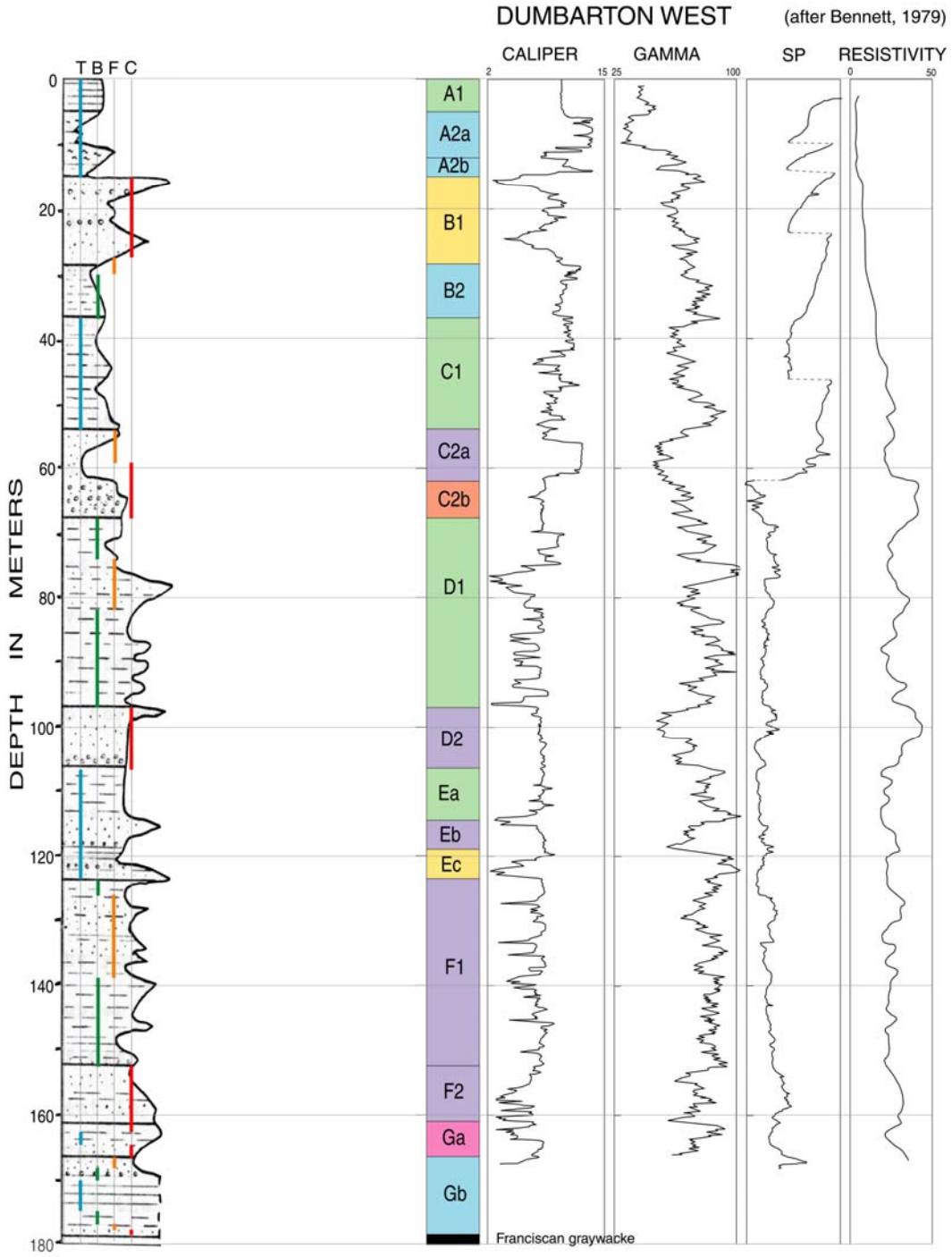
NEW MONITORING WELLS IN SANTA CLARA VALLEY




Qhfy
Qhf1
Qhbm
Qhff
Qf
Qpf
Ql
Qhff
Qhbm
San Francisco
Bay
Qf
Qhbm
Qhf2
Qhff
Qhff
Qhf
Qhff
Qpf
Qhf
Qhff
Qpf
Qhl
Qpf
Qhl
Qf
Qhf
50
Qhf
Qhff
Qpf
Qhf
10 Km



Paleomag by Ed Mankinen, USGS


DUMBARTON WEST
(after Bennett, 1979)
CALIPER
GAMMA
SP
RESISTIVITY
T B F C
DEPTH IN METERS
0
20
40
60
80
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120
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160
180
2
15
25
100
0
50
A1
A2a
A2b
B1
B2
C1
C2a
C2b
D1
D2
Ea
Eb
Ec
F1
F2
Ga
Gb
Franciscan graywacke